WHAT IS CLAIMED IS:

1

2

3

5

6

7

9

10

11

12

ì

2

3

5

6

1. A method for performing common call processing management using a common software platform including horizontal components for providing common functions required in all communication systems, and vertical components for providing specific functions on the basis of communication systems, comprising the steps of:

allowing a common agent to perform corresponding operations including an operation of gathering Internet information on the basis of a predetermined schedule irrespective of a manager's intervention;

allowing an operations administration and maintenance module to administer and maintain a network in which the corresponding operations are performed on the Internet; and

allowing a common call processor to manage a subscriber in response to a call signal provided from a physical component receiving a subscriber signal and set up a voice path on the basis of the call signal where the subscriber signal can be transmitted through the voice path.

- 2. The method as set forth in claim 1, wherein the common call processor comprises:
- a call processing management application program interface for providing a switching interface, subscriber interfaces and an interface between call processing modules;
- an event decoding module for decoding a corresponding command and extracting physical termination information and a relation index;
 - a component specific call processing module for organizing components for performing

corresponding functions based on the switching interface and the subscriber interfaces and interfacing with a lower-order module;

a common call signal management module for processing and routing a signal generated from the switching interface and a control signal to a corresponding module in response to a request from a subscriber interface;

10

11

12

13

15

1

2

3

2

1

2

3

a common connection management module for controlling a connection for setting up a voice path irrespective of hardware and an application program; and

a call resource management module for managing system resources associated with call processing.

- 3. The method as set forth in claim 2, wherein the component specific call processing module comprises a vertical component having at least one of a media gateway control protocol interface, a V5.2 interface and a GR303 interface being voice call signal interfaces.
- 4. The method as set forth in claim 3, wherein the physical component comprises at least one of a switch module, a tone generator and a physical port.
- 5. The method as set forth in claim 4, wherein the common call processor performs specific call processing according to kinds of vertical and physical components on the basis of the extracted physical termination information and relation index, allocates a system's switching resources, decides path information and generates a control command for a physical switch.

6. The method as set forth in claim 5, wherein the path information decided by the common call processor comprises address information associated with at least one of a card location and a destination by switching.

1

2

` 3

3

5

7

9

10

11

12

1

2

3

7. An apparatus for performing common call processing management using a common software platform including horizontal components for providing common functions required in all communication systems, and vertical components for providing specific functions on the basis of communication systems, comprising:

a common agent for performing corresponding operations including an operation of gathering

Internet information on the basis of a predetermined schedule irrespective of a manager's intervention;

an operations administration and maintenance module for administering and maintaining a network in which the corresponding operations are performed on the Internet; and

a common call processor for managing a subscriber in response to a call signal provided from a physical component receiving a subscriber signal and setting up a voice path on the basis of the call signal such that the subscriber signal can be transmitted through the voice path.

- 8. The apparatus as set forth in claim 7, wherein the common call processor comprises:
- a call processing management application program interface for providing a switching interface, subscriber interfaces and an interface between call processing modules;

4	an event decoding module for decoding a corresponding command and extracting physical
5	termination information and a relation index;
6	a component specific call processing module for organizing components for performing
. 7	corresponding functions based on the switching interface and the subscriber interfaces and
8	interfacing with a lower-order module;
9	a common call signal management module for processing and routing a signal generated from
10	the switching interface and a control signal to a corresponding module in response to a request from
11	a subscriber interface;
12	a common connection management module for controlling a connection for setting up a voice
13	path irrespective of hardware and an application program; and
14	a call resource management module for managing system resources associated with call
15	processing.

9. The apparatus as set forth in claim 8, wherein the component specific call processing module comprises a vertical component having at least one of an media gateway control protocol interface, a V5.2 interface and a GR303 interface being voice call signal interfaces.

2

3

2

1

- 10. The apparatus as set forth in claim 9, wherein the physical component comprises at least one of a switch module, a tone generator and a physical port.
 - 11. The apparatus as set forth in claim 10, wherein the common call processor performs

- specific call processing according to kinds of vertical and physical components on the basis of the
- extracted physical termination information and relation index, allocates a system's switching
- resources, decides path information and generates a control command for a physical switch.
- 12. The apparatus as set forth in claim 11, wherein the path information decided by the
- 2 common call processor comprises address information associated with at least one of a card location
- and a destination by switching.